

## Product datasheet for **SC330255**

### Geminin (GMNN) (NM\_001251989) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Geminin (GMNN) (NM_001251989) Human Untagged Clone
Tag:	Tag Free
Symbol:	GMNN
Synonyms:	Gem; MGORS6
Vector:	pCMV6-Entry (PS100001)
Fully Sequenced ORF:	>SC330255 representing NM_001251989. Blue=Insert sequence Red=Cloning site Green=Tag(s)

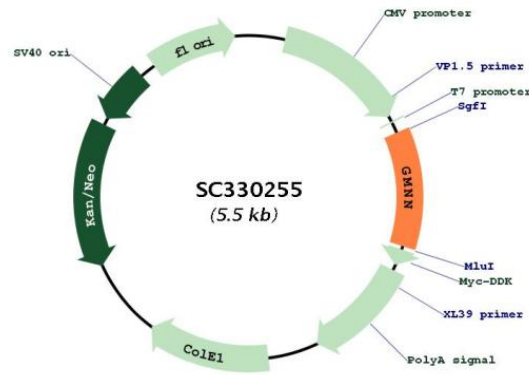
```
ATGAATCCAGTATGAAGCAGAAACAAGAAGAAATCAAAGAGAATATAAAGAATAGTTCTGTCCCAAGA
AGAACTCTGAAGATGATTCAGCCTTCTGCATCTGGATCTTGTGGAAGAGAAAATGAGCTGTCCGCA
GGCTTGTCCAAAAGGAAACATCGGAATGACCACTTAACATCTACAACCTCCAGCCCTGGGGTTATTGTC
CCAGAATCTAGTGAAAAATAAAATCTTGGAGGAGTCACCCAGGAGTCATTTGATCTTATGATTAAGAA
AATCCATCCTCTCAGTATTGGAAGGAAGTGGCAGAAAAACGGAGAAAGGCGCTGTATGAAGCACTTAAG
GAAAATGAGAACTTCATAAAGAAATTGAACAAAAGGACAATGAAATTGCCCGCCTGAAAAGGAGAAAT
AAAGAACTGGCAGAAGTAGCAGAACATGTACAGTATATGGCAGAGCTAATAGAGAGACTGAATGGTGAA
CCTCTGGATAATTTTGAATCACTGGATAATCAGGAATTTGATTCTGAAGAAGAACTGTTGAGGATTCT
CTAGTGGAAGACTCAGAAATTGGCACGTGTGCTGAAGGAAGTGTATCTTCTCTACGGATGCAAAGCCA
TGTATATGA
```

Restriction Sites: Sgfl-Mlul



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Plasmid Map:



**ACCN:** NM\_001251989

**Insert Size:** 630 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001251989.1](#)

**RefSeq Size:** 1143 bp

**RefSeq ORF:** 630 bp

**Locus ID:** 51053

**UniProt ID:** [O75496](#)

**Cytogenetics:** 6p22.3

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**MW:** 23.6 kDa

**Gene Summary:** This gene encodes a protein that plays a critical role in cell cycle regulation. The encoded protein inhibits DNA replication by binding to DNA replication factor Cdt1, preventing the incorporation of minichromosome maintenance proteins into the pre-replication complex. The encoded protein is expressed during the S and G2 phases of the cell cycle and is degraded by the anaphase-promoting complex during the metaphase-anaphase transition. Increased expression of this gene may play a role in several malignancies including colon, rectal and breast cancer. Alternatively spliced transcript variants have been observed for this gene, and two pseudogenes of this gene are located on the short arm of chromosome 16. [provided by RefSeq, Oct 2011]  
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3 and 4 encode the same protein.